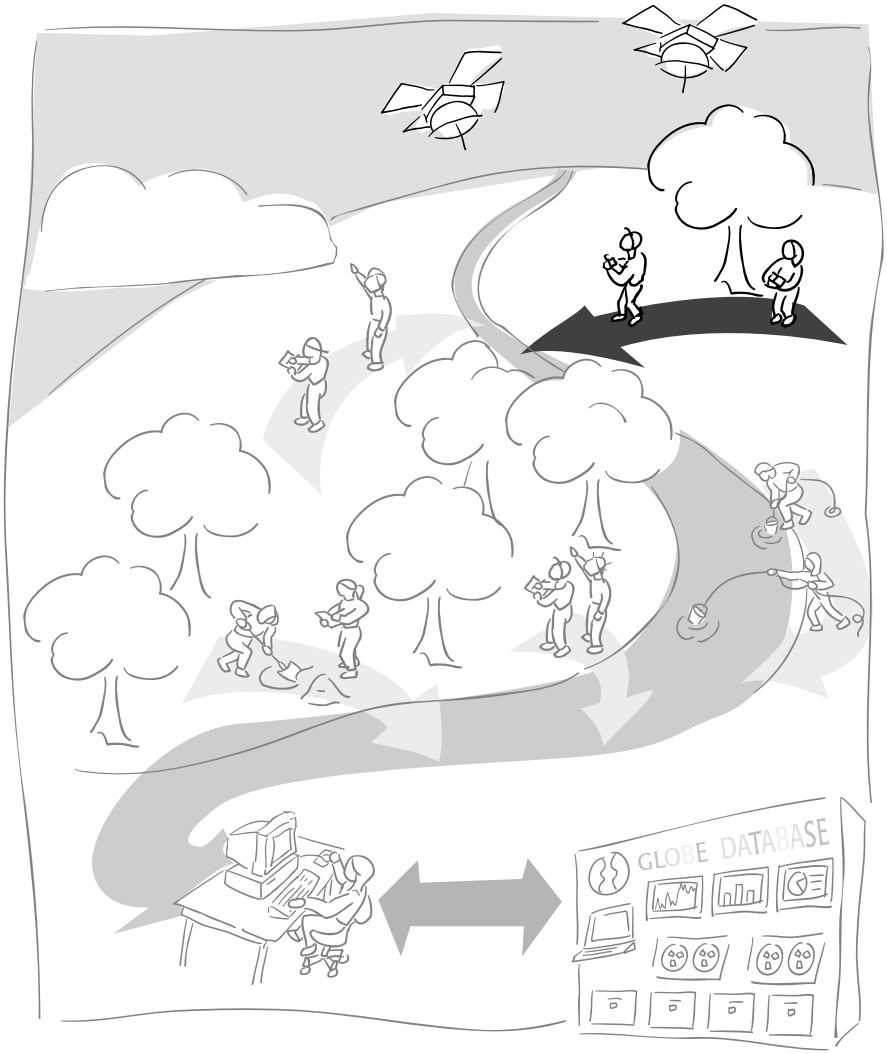
# GPS Investigation




## A GLOBE™ Learning Investigation

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# GPS Investigation at a Glance

## Protocol

Onetime Only Measurements:

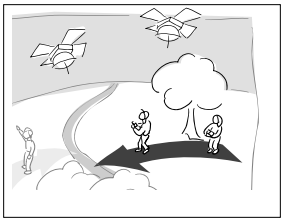
Time of initial recording and averaged latitude, longitude, and elevation for the following Study Sites:
Atmosphere, Hydrology, Land Cover, Soil Characterization, Soil Moisture, and your school which is the center of your GLOBE Study Site.

## Suggested Sequence of GPS Investigation

Read the Protocol to learn precisely what is measured and how.

Copy and distribute the *Field Guides* to your students.

Prior to using the GPS receiver, identify all the GLOBE sites that require latitude, longitude, and elevation measurements.



Have the students conduct some test measurements near your school, following the *GPS Field Guide* found in the Protocol section. When you and your students are comfortable with the operation of the receiver go to your GLOBE study sites and, following the *GPS Field Guide,* take the position measurements at each site. Report your results back to GLOBE as soon as possible upon completing the measurements and calculations.

If one or more of your sites are obscured by tree canopy, follow the *Offset GPS Activity Field Guide* to determine your site's position.

If your students are experiencing difficulties with performing the measurements or are interested in further activities related to global positioning systems, refer to and conduct one or more of accompanying activities (*Relative and Absolute Directions, Working with Angles,* and *What is the Right Answer?*)

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